IN THE CLAIMS

Please amend the following claims.

- 1. (Canceled) A method of patterning a crystalline film comprising:
 - forming a crystalline film having a degenerate lattice comprising first atoms in a first region and a second region;
 - placing dopants into interstitial cites in said crystalline film in said first region wherein said dopants are electrically neutral with respect to said crystalline film;
 - activating said dopants so that said dopants substitute with said first atoms in said lattice to form a non-degenerate lattice in said first region, said second region remaining a degenerate lattice; and
 - exposing said first region and said second region to a wet etchant wherein said wet etchant etches said degenerate lattice in said second region without etching said non-degenerate lattice in said first region.
- 2. (Canceled) The method of claim 1 wherein said crystalline film is a semiconductor film.
- 3. (Canceled) The method of claim 2 wherein said semiconductor film is a silicon film.
- 4. (Canceled) The method of claim 3 wherein said silicon film is a polycrystalline film.
- 5. (Canceled) The method of claim 1 wherein said crystalline film is selected from the group consisting of gallium arsenide and InSb.
- 6. (Canceled) The method of claim 1 wherein said etchant utilizing an associative reaction to etch said degenerate lattice.
- 7. (Canceled) The method of claim 3 wherein said etchant is a non-oxidizing basic solution.
- 8. (Canceled) The method of claim 7 wherein said etchant comprises a hydroxide with a pH between 9 and 11.
- 9. (Canceled) The method of claim 5 wherein said etchant comprises an oxidant in the presence of an acid.
- 10. (Canceled) The method of claim 9 wherein said etchant comprises an oxidant selected from the group consisting of nitric acid and hydrogen peroxide and wherein said etchant has a pH between 2 and 4.

-2-

Serial No.: 10/750.045

- 11. (Canceled) The method of claim 1 wherein said non-degenerate lattice in said first region has a first lattice energy and said degenerate lattice in said second region has a second lattice energy wherein said second lattice energy is thermodynamically higher (relatively less stable) than said first lattice energy.
- 12. (Canceled) The method of claim 1 wherein said non-degenerate lattice has a first activation energy barrier to said etchant and said degenerate lattice has a second activation energy barrier to said etchant wherein said second activation energy barrier is less than said first activation barrier.
- 13. (Canceled) The method of claim 12 wherein said etchant has a chemical energy greater than said second activation energy barrier and less than said first activation energy barrier.
- 14. (Canceled) A method of patterning a crystalline film comprising:
 - forming a mask having an opening on a crystalline film having a lattice comprising first atoms, said opening formed over a first region and said mask covering a second region;
 - implanting dopants atoms through said opening and into said first region of said crystalline film beneath said opening wherein said dopant atoms are physically larger than said first atoms;

removing said mask;

- heating said crystalline film so that said dopants substitute with said first atoms in said lattice in said crystalline film in said first region; and
- exposing said first region and said second region to an etchant wherein said etchant etches said second region without etching said first region.
- 15. (Canceled) The method of claim 14 wherein the lattice comprising dopants in said first region is a non-degenerate lattice.
- 16. (Canceled) The method of claim 15 wherein said lattice in said second region is a degenerate lattice.
- 17-19. (Canceled)
- 20. (Canceled) A method of patterning a crystalline film comprising:

 providing a crystalline film having a degenerate lattice comprising first atoms in a

 first region and a second region;

-3-Serial No.: 10/750,045 -3-Attorney Docket: 42P17528

- substituting dopant atoms with said first atoms in said degenerate lattice in said first region to form a non-degenerate lattice in said first region wherein said dopants are electrically neutral with respect to said crystalline film; and exposing said first region having said non-degenerate lattice and said second region having said degenerate lattice to an etchant wherein said etchkt etches said second region and not said first region.
- 21. (Canceled) The method of claim 20 wherein said crystalline film is silicon.
- 22. (Canceled) The method of claim 20 wherein said dopant atoms are boron.
- 23.- 25. (Canceled)
- 26. (Original) A method of forming integrated circuit comprising:
 - forming a sacrificial gate electrode over a first channel region of a semiconductor substrate and forming a second sacrificial gate electrode over a second channel region of said semiconductor substrate;
 - altering said first sacrificial gate electrode and/or said second sacrificial gate electrode such that said first sacrificial gate electrode can be etched with an etchant without etching said second sacrificial gate electrode;
 - forming a dielectric layer over said first sacrificial gate electrode and over said second sacrificial gate electrode;
 - planarizing said dielectric layer so as to exposed the top surface of said first sacrificial gate electrode and said second sacrificial gate electrode;
 - after altering said first sacrificial gate electrode and/or said second sacrificial gate electrode etching said first sacrificial gate electrode with said etchant without etching said second sacrificial gate electrode to form a first opening and expose said first channel region of said semiconductor substrate;
 - depositing a first metal film over said first channel region of said semiconductor substrate and on the top surface of said dielectric film;
 - removing said first metal film from the top of said dielectric to form a first metal gate electrode;
 - removing said second sacrificial gate electrode material to form a second opening; forming a second metal film different than said first metal film over said dielectric layer and into said second opening; and

Serial No.: 10/750,045 Attorney Docket: 42P17528

- removing said second metal film from the top surface of said dielectric layer to form a second metal gate electrode.
- 27. (Original) The semiconductor device of claim 26 wherein said first metal film has a work function between 3.9 eV and 4.2 eV.
- 28. (Original) The method of claim 26 wherein said second metal film has a work function between 4.9 eV to 5.2 eV.
- 29. -31. (Canceled)